



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

2672
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Patent Application of

HOLLIS et al.

Atty. Ref.: 723-749

Serial No. 09/585,329

Group: 2672

Filed: 02 June 2000

Examiner: Good-Johnson

For: VARIABLE BIT FIELD COLOR ENCODING

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Sir:

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Under 37 C.F.R. §§ 1.56 and 1.97, the applicant directs the attention of the Patent and Trademark Office to the items listed on the attached forms PTO-1449. These items were cited in copending commonly-assigned related patent applications as indicated in the appendix and not yet of record in this case.¹ The Examiner is requested to cite and consider these items in this case.

Applicant is attaching copies of all items other than U.S. patents. The U.S. patents are readily available to the Examiner; applicant will submit a copy upon request.

Should the examiner need anything further to consider these items, please contact the undersigned at the telephone number listed below.

In the event a first Office Action has already been mailed, please treat this paper as a submission under 37 C.F.R. § 1.97(c) and charge Deposit Account No. 14-1140 for the fee required by 37 C.F.R. § 1.17(p). The U.S. Patent and Trademark Office is authorized to charge any fee which was asserted to have been filed or which should have been filed and to credit any overpayment, to that same Deposit Account No. 14-1140.

05/14/2003 DTESSEN1 00000001 141140 09585329

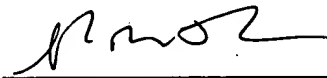
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¹ The identification of the co-pending U.S. Patent Applications in the appendix is not to be construed as a waiver of secrecy as to those applications now or upon issuance of this application as a patent.

HOLLIS et al.
Serial No. **09/585,329**

Respectfully submitted,

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APPENDIX

The items cited on the attached form PTO-1449 is of record in the co-pending related commonly-assigned patent applications as indicated below:

I. Application No. 09/465,754 filed December 17, 1999 (att. dkt. no. 723-799)
entitled "Vertex Cache For 3D Computer Graphics":

WO/93/04429	PCT
4,491,836	Collmeyer et al.
4,653,012	Duffy et al.
4,695,943	Keeley et al.
4,710,876	Cline et al.
4,768,148	Keeley et al.
4,785,395	Keeley
4,790,025	Inoue et al.
4,812,988	Duthuit et al.
4,829,452	Kang et al.
4,833,601	Barlow et al.
4,965,751	Thayer et al.
4,975,977	Kurosu et al.
5,056,044	Frederickson et al.
5,086,495	Gray et al.
5,163,126	Einkauf et al.
5,179,638	Dawson et al.
5,353,424	Partovi et al.
5,448,689	Matsuo et al.
5,657,045	Katsura et al.
5,657,443	Krech, Jr.
5,659,673	Nonoshita
5,726,947	Yamazaki et al.
5,740,406	Rosenthal et al.
5,745,125	Deering et al.
5,748,986	Butterfield et al.
5,751,930	Katsura et al.
5,754,191	Mills et al.
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5,822,516	Krech, Jr.
5,838,334	Dye
5,886,701	Chauvin et al.
5,887,155	Laidig
5,940,089	Dilliplane
5,949,421	Ogletree et al.
5,995,120	Dye
6,088,701	Whaley et al.
6,226,713 B1	Mehrotra
6,292,194 B1	Powll, III
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Thompson, Nigel, "Rendering with Immediate Mode," Microsoft Interactive Developer Column: Fun and Games, printed from web site msdn.microsoft.com, 8 pages (March 97)

"HOWTO: Animate Textures in Direct3D Immediate Mode," printed from web site support.microsoft.com, 3 pages (last reviewed 12/15/2000)

INFO: Rendering a Triangle Using an Execute Buffer," printed from web site support.microsoft.com, 6 pages (last reviewed 10/20/2000)

U.S. application Serial No. 09/337,293, filed 6/21/1999, "Multi-Format Vertex Data Processing Apparatus and Method

Datasheet, SGS-Thomson Microelectronics, nVIDIA™, RIVA 128™ 128-Bit 3D Multimedia Accelerator (10/1997)

Product Presentation, "RIVA128™ Leadership 3D Acceleration," 2 pages

Hoppe, Hugues, "Optimization of Mesh Locality for Transparent Vertex Caching," PROCEEDINGS OF SIGGRAPH, pages 269-276 (August 8-13, 1999)

II. Application No. 09/726,223 filed November 28, 2000 (atty. dkt. no. 723-751)
entitled "Z Value Clamping In Near-Z Range To Maximize Precision Of Visually
Important Z Components And To Avoid Near-Z Clipping In A Graphics
Rendering System":

4,888,712 BARKANS et al.
4,907,174 PRIEM
5,819,017 Akeley et al.
5,856,829 GRAY, III et al.
5,923,332 IZAWA
5,926,182 MENON et al.
5,982,376 ABE et al.
5,986,659 GALLERY et al.
6,046,746 DEERING
6,052,129 FOWLER et al.
6,144,387 LIU et al.
6,157,387 KOTANI
6,285,779 Lapidous et al.

III. Application No. 09/722,419 filed November 28, 2000 (atty. dkt. no. 723-958)
entitled "Graphics Pipeline Token Synchronization":

4,989,138 Radochonski
5,345,541 Kelley et al
5,467,459 Alexander et al.
5,487,146 Guttag et al.
5,768,629 Wise et al.
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5,835,792 Wise et al.
5,872,902 Kuchkuda et al.
5,982,390 Stoneking et al.
6,046,752 Kirkland et al.
6,252,610 Hussain
6,476,808 Kuo et al.

IV. Application No. 09/722,382 filed November 28, 2000 (atty. dkt. no. 723-961)
entitled "Method And Apparatus For Direct and Indirect Texture Processing In A
Graphics System":

4,692,880 MERZ et al.

4,935,879	UEDA
5,003,496	HUNT, Jr. et al.
5,422,997	NAGASHIMA
5,469,535	JARVIS et al.
5,495,563	WINSER
5,548,709	HANNAH et al.
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5,586,234	SAKURABA et al.
5,664,162	DYE
5,696,892	REDMANN et al.
5,706,481	HANNAH et al.
5,726,689	NEGISHI et al.
5,734,386	COSMAN
5,745,118	ALCORN et al.
5,751,292	EMMOT
5,764,237	KANEKO
5,777,623	SMALL
5,831,625	RICH et al.
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5,835,096	BALDWIN
5,861,888	DEMPSEY
5,877,770	HANAOKA
5,892,517	RICH
5,926,647	ADAMS et al.
5,945,997	ZHAO et al.
5,963,220	LEE et al.
5,987,567	RIVARD et al.
5,999,198	HORAN et al.
6,002,407	FADDEN
6,011,565	KUO et al.
6,040,844	YAMAGUCHI et al.
6,046,747	SAUNDERS et al.
6,052,126	SAKURABA et al.
6,057,849	HAUBNER et al.
6,057,851	LUKEN et al.
6,057,861	LEE et al.
6,353,438	VAN HOOK

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V. Application No. 09/722,367 filed November 28, 2000 (atty. dkt. no. 723-968)
entitled "Recirculating Shade Tree Blender For A Graphics System":

4,586,038	Sims et al.
5,278,948	Luken, Jr.
5,561,752	Jevans
5,678,037	Osugi et al.
5,867,166	Myhrvold et al.
5,949,428	Toelle et al.
5,999,189	Kajiya et al.
6,016,151	Lin
6,043,821	Sprague et al.
6,236,413	Gossett et al.
6,331,856	Van Hook et al.

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web site (2000)

VI. Application No. 09/726,218 filed November 28, 2000 (atty. dkt. no. 723-960)
entitled "Method And Apparatus For Efficient Generation Of Texture Coordinate
Displacements For Implementing Emboss-Style Bump Mapping In A Graphics
Rendering System":

5,900,881	IKEDO
5,880,736	PEERCY et al.
5,808,619	CHOI et al.
4,808,988	BURKE et al.

6,014,144 NELSON et al.
5,224,208 MILLER, JR. et al.
6,078,334 HANAOKA et al.
5,561,746 MURATA et al.
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4,974,177 NISHIGUCHI
6,081,274 SHIRAISHI
6,031,542 WITTIG
5,621,867 MURATA et al.

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VII. Application No. 09/722,381 filed November 28, 2000 (att. dkt. no. 723-962) entitled "Method And Apparatus For Environment-Mapped Bump-Mapping In A Graphics System":

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4,615,013 YAN et al.
5,544,292 WINSER
5,563,989 BILLYARD
5,809,219 PEARCE et al.
5,870,102 TAROLLI et al.
5,923,334 LUKEN
5,956,043 JENSEN
6,049,337 VAN OVERVELD
6,052,127 VASWANI et al.
6,078,333 WITTIG et al.
6,191,794 PRIEM et al.

VIII. Application No. 09/726,216 filed November 28, 2000 (att. dkt. no. 723-967) entitled "Achromatic Lighting in a Graphics System and Method":

4,275,413 Sakamoto et al.
5,016,183 Shyong
5,097,427 Lathrop et al.

5,361,386	Watkins et al.
5,467,438	Nishio et al.
5,473,736	Young
5,495,563	Winser, Paul A.
5,504,499	Horie et al.
5,557,712	Guay
5,566,285	Okada
5,649,082	Burns
5,687,304	Kiss, Kenneth W.
5,740,343	Tarolli et al.
5,943,058	Nagy
5,956,042	Tucker et al.
6,023,261	Ugajin
6,232,981	Gossett, Carroll Philip
6,239,810	Van Hook et al.
6,417,858	Bosch et al.

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IX. Application No. 09/726,226 filed November 28, 2000 (atty. dkt. no. 723-964) entitled "Method And Apparatus For Anti-Aliasing In A Graphics System":

4,897,806	COOK et al.
5,239,624	COOK et al.
5,394,516	WINSER
5,600,763	GREENE et al.
5,651,104	COSMAN
5,764,228	BALDWIN
5,818,456	COSMAN et al.
5,859,645	LATHAM
5,877,771	DREBIN et al.
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6,469,707 B1 Douglas Voorhies
6,496,187 B1 Michael Deering et al.

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X. Application No. 09/722,380 filed November 28, 2000 (att. dkt. no. 723-957)
entitled "Graphics System With Embedded Frame Buffer Having Re-configurable
Pixel Formats":

5,018,076 JOHARY et al.
5,241,658 MASTERSON et al.
5,307,450 Grosssman
5,543,824 PRIEM et al.
5,559,954 SAKODA et al
5,650,955 PUAR et al.
5,657,478 RECKER et al.
5,694,143 Fielder et al.
5,703,806 PUAR et al.
5,742,788 PRIEM et al.
5,890,190 Rutman
5,914,729 LIPPINCOTT
5,933,154 HOWARD et al.
6,041,010 PUAR et al.
6,075,543 AKELEY
6,215,497 Leung
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XI. Application No. 09/726,212 filed November 28, 2000 (att. dkt. no. 723-956)
entitled "Method And Apparatus For Dynamically Reconfiguring The Order Of
Hidden Surface Processing Based On Rendering Mode":

5,144,291 Nishizawa

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6,052,125 Gardiner et al.
6,111,584 Murphy, Nicholas J.N.
6,144,365 Young et al.
6,166,748 Van Hook et al.
6,172,678 B1 Shiraishi
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XII. Application No. 09/726,212 filed November 28, 2000 (atty. dkt. no. 723-973)
entitled "Method And Apparatus For Providing Non-Photorealistic Cartoon
Outlining Within A Graphics System":

5,091,967 Ohsawa
5,666,439 Ishida et al
5,684,941 Dye
5,757,382 Lee
5,933,529 Kim
5,940,538 Spiegel et al
6,021,417 Massarksy
6,026,182 Lee et al
6,038,348 Carley
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6,088,487 Kurashige

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Markosian, Lee et al., "Real-Time Nonphotorealistic Rendering," Brown University site of the NSF Science and Technology Center for Computer Graphics and Scientific Visualization, Providence, RI, 5 pages (undated)

Feth, Bill, "Non-Photorealistic Rendering," wif3@cornell.edu, CS490 – Bruce Land, 5 pages (Spring 1998)

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web site information, CartoonReyes,
<http://www.zentertainment.com/zentropy/review/cartoonreyes.html>
VIDI Presenter 3D Repository, "Shaders." 2 pages,
<http://www.webnation.com/vidirep/panels/renderman/shaders/toon.phtml>

XIII. Application No. 09/726,225 filed November 28, 2000 (atty. dkt. no. 723-954)
entitled "Method And Apparatus For Providing Improved Fog Effects In A
Graphics System":

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5,357,579	BUCHNER et al.
5,363,475	BAKER et al.
5,412,796	OLIVE
5,415,549	LOGG
5,432,895	MYERS
5,535,374	OLIVE
5,573,402	GRAY
5,616,031	LOGG
5,724,561	TAROLLI et al.
5,977,984	OMORI
5,990,903	DONOVAN
6,005,582	GABRIEL et al.
6,064,392	ROHNER
6,268,861 B1	Sanz-Pastor et al.
6,342,892 B1	Van Hook et al.
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XIV. Application No. 09/722,664 filed November 28, 2000 (atty. dkt. no. 723-969)
entitled "Controller Interface For A Graphics System":

5,593,350	BOUTON et al.
5,607,157	NAGASHIMA
5,628,686	SVANCAREK et al.
5,638,535	Rosenthal et al.
5,714,981	SCOTT-JACKSON et al.
5,791,994	HIRANO et al.
5,892,974	KOIZUMI et al.

5,958,020 EVOY et al.
6,007,428 NISHIUMI et al.
6,022,274 TAKEDA et al.
6,070,204 Poisner, David
6,078,311 Pelkey, Michael H.
6,155,926 MIYAMOTO et al.
6,200,253 NISHIUMI et al.
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XV. Application No. 09/726,221 filed November 28, 2000 (atty. dkt. no. 723-955)
entitled "Method And Apparatus For Texture Tiling In A Graphics System":

4,974,176 BUCHNER et al.
5,490,240 FORAN et al.
5,760,783 MIGDAL et al.
5,828,382 WILDE
5,831,624 TAROLLI et al.
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6,466,223 B1 Dorbie et al.

XVI. Application No. 09/722,378 filed November 28, 2000 (atty. dkt. no. 723-965)
entitled "Z-Texturing":

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XVII. Application No. 09/723,336 filed November 28, 2000 entitled "Application
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9-330230	JAPAN
5,404,445	Matsumoto
5,432,900	Rhodes et al
5,438,663	Matsumoto et al
5,751,295	Becklund et al
5,861,893	Strugess, Jay J.
5,870,587	DANFORTH et al.
5,920,876	UNGAR et al.
5,936,641	Jain et al
5,995,121	Alcokrn et al
6,052,133	Kang
6,057,863	Olarig
6,151,602	HEJLSBERG et al.
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XVIII. Application No. 09/722,663 filed November 28, 2000 (atty. dkt. no. 723-963)
entitled "Graphics System With Copy Out Conversions Between Embedded
Frame Buffer And Main Memory":

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4,817,175	TENENBAUM et al.
5,062,057	BLACKEN et al.
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5,815,165 BLIXT
5,828,383 MAY et al.
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5,909,225 SCHINNERER et al.
5,912,676 MALLADI et al.
5,936,683 LIN
6,020,931 BILBREY et al.
6,040,843 MONROE et al.
6,043,804 GREENE
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entitled "Method and Apparatus for Accessing Shared Resources":

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5,706,482 MATSUSHIMA et al.
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5,781,927 WU et al.
5,903,283 SELWAN et al.
5,959,640 RUDIN et al.
5,986,677 JONES et al.
6,008,820 Chauvin et al.
6,035,360 Doidge et al
6,057,862 MARGULIS
6,078,338 HORAN et al.
6,091,431 SAXENA et al.
6,104,417 NIELSEN et al.
6,105,094 LINDEMAN
6,108,743 DEBS et al.
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XX. Application No. 09/726,220 filed November 28, 2000 (atty. dkt. no. 723-974) entitled "Graphics Processing System With Enhanced Memory Controller":

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5,553,228 ERB et al.
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